

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number  
WO 2004/057119 A1

(51) International Patent Classification<sup>7</sup>: E03D 5/00,  
E03B 1/04

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,  
VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/HU2002/000164

(22) International Filing Date:  
23 December 2002 (23.12.2002)

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,  
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant and

(72) Inventor: ÖKRÖS, Pál [HU/HU]; Csengettyú u. 9,  
H-1098 Budapest (HU).

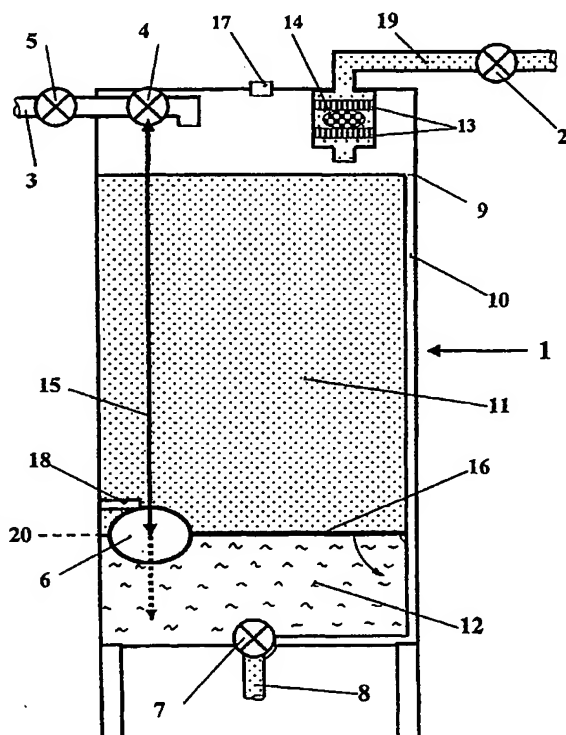
Published:

— with international search report

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: GREYWATER RECYCLING SYSTEM



(57) ~~Abstract:~~ The subject of the invention is a greywater recycling system, primarily for the economical flushing of toilets, consisting of one or more tanks (1), bath tub (22), a washing machine (30) provided with a primary water pump (21), water supply pipe (3), greywater pipe (19), flushing conduit (8), flushing valve (7), and in the tank (1) a floating ball (6). The characteristic feature of the invention is that the floating ball (6) is fixed by means of a pivoted support arm (16) to the side wall of the tank (1) allowing it to swing in vertical plane, there is a greywater column (11) above the floating ball (6), and an actuating shaft (15) fixed onto the floating ball (6), the actuating shaft (15) passing through the floating ball (6), the actuating shaft (15) above the floating ball (6) is connected to the clean water fill valve (4) of the water supply pipe (3).